

Amendments to the Claims:

Please amend claims 16-19 as follows. The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claims 1-15 (Cancelled).

Claim 16 (Currently Amended). A laser scanning microscope comprising:

a pulse laser unit configured to oscillate a pulse laser beam to excite a sample;

5 a scanning mirror configured to scan the pulse laser beam;

a photodetector configured to detect light from the sample and output an analog detection signal;

a sampling control circuit which receives a pulse oscillation signal from the pulse laser unit and generates a trigger signal delayed by a predetermined time;

10 a pulse generator which receives the trigger signal and generates ~~a plurality of~~ sampling pulse signals for each trigger signal for a predetermined output period;

an A/D converter which converts the analog detection
15 signal from the photodetector to digital data in synchronism with
each of the sampling pulse signals; and

a memory which stores the digital data provided by the A/D
converter.

Claim 17 (Currently Amended). The laser scanning
microscope according to claim 16, wherein digital integration of
a ~~flourescent~~ fluorescent signal is performed using the digital
data stored in the memory.

Claim 18 (Currently Amended). The laser scanning
microscope according to claim 16, wherein analysis is performed
to detect a peak of a ~~flourescent~~ fluorescent signal using the
digital data stored in the memory.

Claim 19 (Currently Amended). The laser scanning
microscope according to claim 16, wherein analysis is performed
to determine a time constant of a ~~flourescent~~ fluorescent signal
using the digital data stored in the memory.